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NPIC/TSSG/RED-1963-69

29 DEC 1969

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT : Proposed Contract [redacted] for Mensuration Support Services at a Cost of [redacted]

1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 7.

2. A task team has been established within the NPIC to conduct an in-house study in Precise Measurement. The intent of this study is to identify and quantify all possible sources of error in the mensuration process and to develop procedures which will eliminate or reduce those errors that materially affect mensuration results. The work to be accomplished under this study has been broken down into seven tasks and covers specific areas; such as establishing a ground truth data bank, evaluating the mathematical rigor of in-house computer data reduction programs, investigating the interrelationship between image quality and mensuration capability, and determining the accuracy of current stereo mensuration capabilities. The majority of the work on this study is currently being done in-house by NPIC personnel, but contractor support is required in several specialized areas. One of the areas requiring contractor support is the stereo mensuration accuracy task.

3. Under a separate contract (a subtask of the Interpretation Research Program), the [redacted] has set forth the requirements for material and data to conduct the experimental investigation of stereo mensuration. IEG/PHD will supply the personnel and instrumentation for the investigation, but a need currently exists for a qualified contractor to prepare the test materials, monitor and collect the test data, and to organize and prepare the data for final statistical analysis by the [redacted]. The selected contractor will perform 40 man-weeks of work on this task, but the tests will be scheduled so as not to impair the production work of IEG/PHD. The work on this task will start in January 1970 and will be completed in May 1970, if no major production schedule conflicts are encountered. The items to be delivered under the proposed contract are instructions for the tests, briefing books for the test subjects, and punched cards containing the target parameters and computed dimensions. There is little, if any, technical risk involved in this project.

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SUBJECT: Proposed Contract with [redacted]
[redacted] for Mensuration Support Services at a Cost of [redacted]

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4. Although the [redacted] has prepared the test plan and will do a final statistical analysis of the data, they have stated that it would be inefficient for [redacted] to actually monitor the tests and organize the data. [redacted] was selected as a sole source for this contract because of their immediate availability in the Washington area, their security clearances, their familiarization with NPIC operations, their photogrammetric experience, their expertise and experience in mensuration, and their excellent performance in handling a somewhat similar monoscopic mensuration project with the [redacted] for NPIC last year.

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5. It is anticipated that there will be a follow-on action in the form of a project for Basic Research in Precise Measurement sponsored by TSSG/RED in the latter part of FY-1970. The data from the in-house Precise Measurement study will provide valuable guidelines and test material for the forthcoming project. It is estimated that the basic research program in the area of Precise Mensuration will cover a three-year period and cost an estimated total of [redacted] to be financed over 3 years at approximately [redacted] per year.

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7. It is requested that approval be granted to negotiate the [redacted] for a contract to cover Mensuration Support Services at a cost not to exceed [redacted]

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Chief, Technical Services & Support Group,
NPIC

Attachments: (3)

1. [redacted] Proposal and Requirements
2. [redacted]
3. Procurement [redacted]

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5 JAN 1970

APPROVAL:

ARTHUR C. LUNDAHL

Date

Director

National Photographic Interpretation Center

Distribution:

Original - NPIC/TSSG/SC&PS (After approval)

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